

Collectors of Aquarium Literature

Number 13

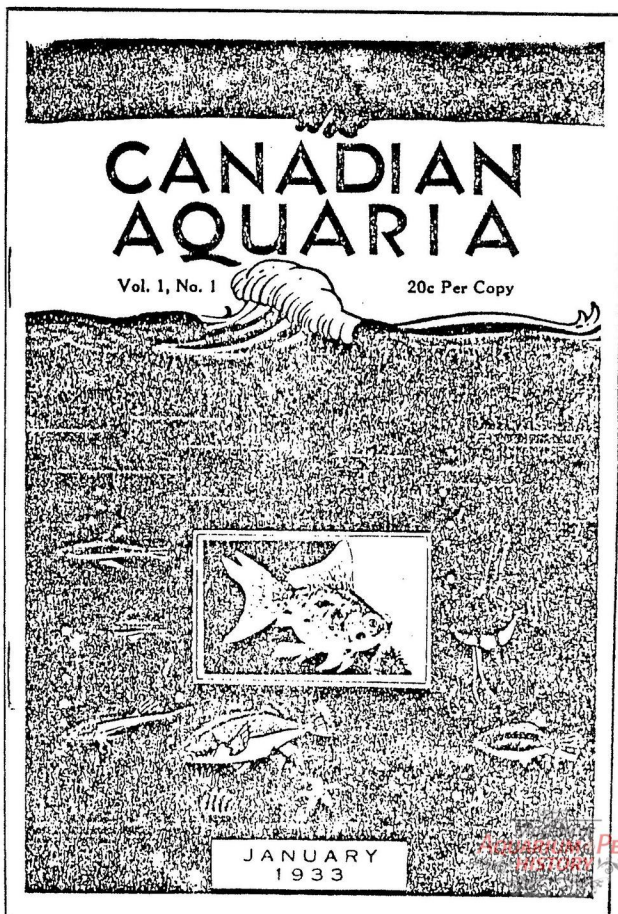
May 1986

THE CANADIAN AQUARIA

by Robert Harris, CAL

The Canadian Aquaria was printed in London, Ontario, Canada. This is somewhat of a unique title as an aquarium hobby magazine. Unlike many professionally printed publications, which are either magazines printed for profit with advertising and subscription dollars or, are published by specialty groups or aquarium clubs, this title started out as a private venture and finished up being run by an aquarium shop. It was a professional, slick type magazine following a similar format and size to the Home Aquarium Bulletin, (March, 1931) and Aquarium News, (January, 1934). No doubt these three titles influenced each other and even advertised amongst each others pages. Along with Innes's, The Aquarium, (May, 1932), an obvious aquarium hobby boom was well under way on both sides of the border. Many articles were shared by these titles, and Canadian Aquaria took advantage of the expertise appearing in the Home Aquarium Bulletin and reprinted them amongst its pages.

The Canadian Aquaria must be considered as Canada's most successful aquarium magazine to date, while not the first, or the last, it did survive 44 issues, from January, 1933, to August, 1936.



This is the longest surviving period by a Canadian aquarium publication. As it relied so heavily on the Home Aquarium Bulletin for information and articles, it did not come as a surprise to learn it lasted only five issues after the Home Aquarium Bulletin ceased publication. With production costs being very high herein Canada, with the costs of photos, paper, ink, etc., and only limited advertising income, The Canadian Aquaria would have been actually quite a venture. The first issue attempted to recoup its costs and attempted a sale price of 20 cents a copy. As this was not received well, all subsequent issues were priced at 10 cents. This was the average sale price for aquarium magazines at the time. The front cover of each issue kept the same format through out, as illustrated, with only the centre picture changing each month to complement with the major article in that month's issue. These small pictures, about 2" X 2 3/4" were either reproduced black and white photographs or black line drawings. With goldfish being very popular here as well in the 1930's, it is not surprising that the black moor appears on the cover picture at least three times, on the April, 1935, May, 1936 and the August, 1936 issues. Each volume ran in page order from one issue to the next. Each issue averaged approximately 24 pages, about the same as the other three publications at that time. The cover printing was very dark, starting with a green and blue cover on the first two issues. Number three was red and blue and then sometime after volume 2, number 7, it changed to red and black, which it stayed with through to the last issue. Amongst its pages were black and white photographs and line drawings. The artwork was quite good but not nearly as artistic as some of the beautiful drawings that appeared in and on the cover of the Home Aquarium Bulletin.

The Bulletin Executive changed over the years. Apparently, starting as a one man operation with Thomas W. Marshall as "Editor and Publisher" from the first issue. By V.1., N.3. R. C. Armstrong came on board as "Editor", with T.W. Marshall. By V.2., N.2. R.C. Armstrong is now "Associate Editor", where he stayed until the end, and there are four "Contributing Editors" listed. Will Cripps was the "Staff Artist" of many black and white line drawings. By V.2., N.7. H.B. Huston is not the "Editor" and now Ralph Standfast is listed as the "Staff Photographer". By V.4., N. 1 W.G. Trestain is the "Executive Editor", and H.B. Huston is "Consulting Editor". Ralph Standfast is now listed as "Staff Artist". The list of "Contributing Editors" were E.O. Boug, Roger P. Gray, E. Calver Bayliss, W.L. Brind and Lyman W. Close. By V.4., N. 3 E.O. Boug is now "Executive Editor" and remained so to the end. E.O. Boug was a contributing editor all along and he, along with his brother ran the magazine, from the last issues, from their aquarium shop. Boug Bros. Aquarium. at 58 Wharncliffe Rd. N. in London. Boug Bros. Aquarium must have been a big operation. They built aquariums, imported and bred fish and raised plants, published catalogues, manufactured fish foods, disease remedies and the like. Last summer I attempted to locate the site of the Boug Bros. Aquarium. I found that North in the address has been dropped, no doubt a result of this towns growth after World War II. The street has also been renumbered. The location is now 42 Wharncliffe Rd., a large, two storey, red brick building now occupied by Irene's Bridal Shoppe. Other businesses occupy the premises running down Stanley Street, this being a corner building. It must have been a great aquarium shop for this small town in the mid 1930's. Now, London is a fair size city in South Western Ontario.

I would be very interested in hearing from anyone who has any copies of this magazine. The search for additional information on this title continues. I would appreciate any help anyone can provide. Thanks.



CANADIAN AQUARIA

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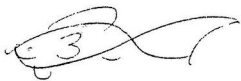
Volume	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1933												
2	1934												
3	1935												
4	1936												



COMMEMORATIVE BOOKLET HONORS AMERICA'S FISH

by Dr. Keith E. Taylor

By now most of you will have heard of or seen the new \$2.20 commemorative stamp booklet featuring five fish common to U.S. waters. Each booklet contains two panes of five 22-cent stamps featuring the muskellunge, Atlantic cod, largemouth bass, bluefin tuna and catfish. These stamps are part of a year long tribute to the National Wildlife Federation's 50th Anniversary. Being issued March 21st in Seattle Washington, they are expected to be on sale only two months in most post offices. If you've missed your chance to purchase a booklet or two for your collection, don't despair. The U.S. Postal Service's "Philatelic Catalog" will carry stamps on sale for about a year. Published quarterly, you may obtain a free one year subscription by writing to: U.S. Postal Service, Philatelic Sales Division, Washington, D.C. 20265-9997.



PART 3- The 1912-14 "Aquarium" Magazine

Part two of this series took us thru the first issue of the new Magazine. In this piece we will see what happened thru the first volume. The entire run of "The Aquarium" consisted of 2 volumes. Each volume consisted of ten issues. Twenty issues in all. They always published on time. The months of July and August were skipped each year.. The magazine was always a very professional effort. The Aquarium was printed on twenty inch by fourteen inch stock and then foled once. This gave four sides to each sheet, Some of the later issues expanded to five sheets. This meant the Magazine was either sixteen or twenty pages in length. Well illustrated both with photographs and line drawings. Advertising revenues fluctuated. There actually is less advertising in the second issue than the first. While the material in these magazines was surprisingly sophisticated, and much of it still useful, the advertising holds my interest the most. Hugo Mullert who produced the first Aquarium magazine devoted to the hobbist advertises that he has been in business since 1869. I imagine he started in Germany before he emigrated. A young "Bill" Innes (later Dr Wm. T...) advertises Rosy sided Dace for \$2.50 a pair. Far as I know this was his only attempt at the retail selling of tropical fish. I can surmise that he sold none and that turned him in to a lifelong student of fish. His publishing business combined with his own vivid writings were the high point in the hobby in the United States. An excellent article by W.L. Brind about Fresh Water Puffers (Tetodon cutcutia) was technically accurate. Eugene Smith wrote about "Collecting along the Morris Canal". Heede wrote about "Aquarium Fish Foods". Innes wrote about "Types of Goldfish". The extraordinary thing about what I have just listed is that all of these articles came from just issue NUMBER TWO.... The third issue was noteworthy as at this point the four publishing Societies decided to charge for the magazine. Ten Cents for each copy. This price remained constant until publication ceased. The Milwaukee Society



joined the four original sponsors and now the magazine had five groups to support the effort. The September issue was Number Four. A new advertiser (The Nature Shop in New York City) advertised 47 different types of "Tropical Fish. Advertising revenues had increased in this issue. The most important new contributor was Dr. Emil Bade, the author of the monumental German tropical fish book "Das Subwasser Aquarium", joined the list of contributors. His article "The Little Fellows with the Wheels (Rotifers)" was done on a very high plane. He had emigrated to the United States. Serious trouble was on the horizon. The first clue is in issue # 4. Editor in Chief Eugene Smith thanks Mr. Wm. Innes for stepping in and doing this issue during his illness. Eugene Smith never recovered his health. He is shown as Editor in Chief until issue #7. Innes is shown as "Acting" Editor in that issue. The editorial tells us that Eugene Smith (through overwork has impaired his health) is stepping down. W.F. DeVoe who had been the Business Manager since inception also is stepping down. Bill Poyser a frequent contributor, and an active member of the Chicago Fish Fanciers Club would become the Editor in Chief, and Mr C.B. Schenk of the Milwaukee Aquarium Society (he was the President) would replace DeVoe as Business Manager. A special "flash" was inserted in issue #7 that tells us that Eugene Smith died. His contribution to the hobby was great. His 1902 book "The Home Aquarium" was an excellent contribution to the hobby (it is surprisingly rare now and if you ever get a chance to own one grab it) and he more than anyone else was responsible for the success of the "Aquarium" to this point in time. Frank L. Tappan advertises his book "Aquaria Fish" in issue #6. Issue #7 was published in Hammond, Indiana and Poyser is now officially the Editor-in-Chief....



THE AQUARIUM

*Issued in the Interests of the Study,
Care and Breeding of Aquatic Life*

Published monthly except July and August at 12th Street, cor. of Cherry, Philadelphia, by the Aquarium Societies of Boston, Brooklyn, Chicago, New York, Milwaukee, Minneapolis and Philadelphia

Send all manuscripts, exchanges, books for review, etc., direct to the Editor-in-chief; all other matter to the Business Manager

ACTING EDITOR, WM. T. INNES, JR.
135 North Twelfth Street, Philadelphia

BUSINESS MANAGER, W. F. DEVOE
Box 383, Baldwin, Long Island, N. Y.

SUBSCRIPTIONS, \$1 SINGLE COPIES, 10c

Advertising Rates upon Application

Vol. I

DECEMBER,

NUMBER 12
OF
THE AQUARIUM
PUBLISHED BY THE
AQUARIUM SOCIETY OF
PHILADELPHIA

The Boston and Minneapolis Aquarium Societies had now joined the group. And now we have seven sponsoring cities. Issue #8 is done with a pale blue cover, but the original format remains unchanged. During all of the issues that Poyser edited the format remained unchanged, but each issue was printed in a different colored cover. Number nine is deep gold and # 10 is a pale pink. Poyser was a former easterner and member of the Philadelphia Society so was well

known to the other heavyweight contributors which should have made it easier for him. Advertising revenue was up by issue # 10. Poyser added a new feature called "Comments & Queries" and it is very well done and makes interesting reading. Both Bill Innes and Frank Tappan are among the "queries" and no doubt contributed to get the new feature off to a good start. W.L. Bring advertises for a 10¢ piece to send" The first ever classified list of Aquarium Fish- (I would like to order ten of them- PLEASE),,

SOCIETY BULLETINS

Brooklyn Aquarium Society

Regular meeting 4th Tues. in every month except June, July & Aug. at Fairchild Bldg 702 Fulton St., at 8 P. M.
Initiation Fee, \$1.00
Annual Dues, \$2.00

President,..... W. F. DEVOR, Box 383, Baldwin, N. Y.
Vice President,..... DR. RUDOLPH C. LIENAU, 137 Bainbridge St.
Local Editor,..... DR. FREDERICK SCHNEIDER, 64 Grove Street.
Corresponding and Recording Sec'y, OWEN H. SMITH, 52 Wall St., New York
Treasurer,..... HARRY ROESLIE, 116 Harman St.
Financial Secretary,..... THORODOR P. FRITZ, 805 Halsey St.
Local Business Manager,..... OWEN H. SMITH, 702 Fulton Street

Tuesday, Feb. 25th.—Annual Election.

Chicago Fish Fanciers' Club

Regular meetings on the Second Wednesday at 809-12 City Hall Square Building, 127-129 North Clark St., at 8.30 P. M. on Fourth Wednesday where announced.

President..... F. S. YOUNG, 428 West 66th Street
Vice President..... DR. G. A. PIERSKEL, 457 North Avenue
Secretary..... W. B. HOFFMAN, Hammond, Ind.
Treasurer..... CARL FOSSETTA, 1341 George Street.
Librarian,..... W. A. POYSER, Hammond, Ind.
Local Editor..... F. G. ORSINGER, 123 S. Oakley Blvd.
Local Business Manager..... J. W. GAGE, 1225 Glendale Ave.

Wednesday, Feb. 26th, "Auction" at residence of Fred S. Orsinger, 123 S. Oakley Blvd.

New York Aquarium Society

Regular meetings on the Second Thursday at the German-American School, Sherman Ave., Jersey City, and on the Fourth Friday at the American Museum of Natural History, 75th St., and Central Park West, New York, each month except July and August.
Initiation Fee, \$1 Dues \$2

President..... EDW. W. KIRKMAN, 22 Nassau Place, East Orange, N. J.
Vice President..... O. H. SMITH, 23 Jacob Street, New York City
Recording Secretary..... ARTHUR OSBORNE, 42 South St., Jersey City, N. J.
Corresponding Secretary..... HERMAN OSMER, West 10th St., N. Y.
Treasurer..... H. A. RICHTBERG, 55 South 16th St., East Orange, N. J.
Librarian..... HERMAN HOFFMEISTER, 165 Webster Av., Jersey City, N. J.
Local Editor..... JOHN TREADWELL NICHOLS, Am. Museum of Nat. History
Local Business Manager..... CARL P. ORDSING, 181 Broadway, New York

Thursday, Feb. 13th.—Review of "The Blatter" by H. A. Richtberg. Auction of fishes, plants and devices donated by members.

Friday, Feb. 28th.—Review of the "Wochenchrift" by Richard Dorn Address "How to Classify a Fish" John Treadwell Nichols

Philadelphia Aquarium Society

Regular meeting on the Fourth Wednesday, at 1414 Arch Street
Initiation Fee, \$1.00 Annual Dues, \$1.50. Corresponding Membership \$1.00 Annually

President..... H. B. LIPPINCOTT, Collingswood, N. J.
Vice President..... CHARLES PAXSON, 2534 N. 11th Street
Treasurer..... HIRAM PARKER, 224 N. Wilton Street
Secretary..... L. M. DORSEY, Jr., 2219 N. 19th Street
Local Editor..... WM. T. INNES, Jr., 1824 N. Park Ave.
Local Business Manager..... L. M. DORSEY, Jr., 2219 N. 19th Street

Wednesday, Feb. 26th. — Competition for Comets, Nymphs, Single-tail Telescopes and Fan-tails, all ages.

Milwaukee Aquarium Society

Regular meeting on First Monday at 103 Grand Ave.
Initiation Fee, \$1. Dues, \$1.20

President..... C. G. B. SCHEPK, 105 Grand Avenue
Vice President..... AUGUST GRAB, 3110 Grand Avenue
Treasurer..... GEO. J. O. STEFFEN, 450 First Street
Secretary..... REV. PAUL ROHL, 389 Pacific Avenue
Librarian..... AUGUST W. POLLWORTH, 1816 Wright Street
Local Business Manager..... W. A. BRYE, 204 Fifteenth Street

Monday, Feb. 3rd. — Rev. G. Keller Rubrecht on "Aquarium Plants"

Minneapolis Aquarium Society

Regular meeting on First Monday at 103 Grand Ave.
Initiation Fee, \$1. Annual Dues, \$1.20

President..... P. L. TAPPAN, 92 South 7th Street
Treasurer..... J. W. FRANZEN, Curator Museum Pub. Library
Secretary..... ROBERT RASMUSSEN, 504 Loan & Trust Bldg

Boston Aquarium Society

Initiation Fee, \$1 Annual Dues, \$1

President..... TENNANT LEE, 18 School St., Dedham, Mass.
Secretary..... CHAS. W. ALDEN, 15 Broadfield St., Boston, Mass.
Treasurer..... FRANKLIN A. PACKARD, 5 Perry St., Cambridge, Mass.



[Handwritten signature]

The Advertisers and the Contributors to The Aquarium magazine were the luminaries of the Tropical Fish hobby of seventy five years ago. Surrounding this section I have affixed a few of the more interesting advertisements, Rabenau, Brind, Tappan, and Lloyd are very familiar names. They all contributed to the literature. This will give you an idea of their commercial affiliations.

The contributors to this first ten issues of Volume number one almost boggle my mind. In one little magazine we find articles by all the above plus Wm. Innes, John Treadwell Nichols, Dr. Emil Bade, Wm. Poyser, Eugene Smith, C. J. Heede, and Herman T. Wolf..

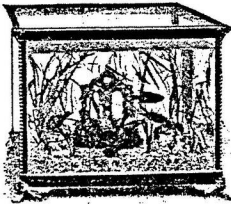
AQUARIUM SPECIALTY CO.

1827-31 WASHINGTON AVE.
NEW YORK CITY

Makers of the Rogers Crystal Aerator and Filter. Largest manufacturers of Aquaria, Terraria, Vivaria and Aquatic Cages, Mouse and Frog Houses. Breeders of Japanese and Chinese fringetail teleoscopes and of Red, African and Japanese snails. Cultivators of Sagittaria Natans and Gigantica and of single-rooted Ludwigia Mullertii
Catalogue on application

WILLIAM MACK

AQUARIST
Phone, 9635 Riverside



BIRD SPECIALIST

102 West 106th Street, New York City

F. L. TAPPAN

Dealer and Breeder of Rare and Fancy Fish

Goldfish	Lung-cared Sunfish	Girardinus reticulatus
Paradise Fish	Mexican Swordtail	Girardinus guppyi
Chanchitos	Geophagus	Platypoecilia maculata
	Gambusia holbrooki	And many others

SINGAPORE SNAILS

deposit a mass of large coral-red eggs out of the water; the little snails drop into the water as they hatch.

Send \$1.00 for my new book, "AQUARIA FISH".
A practical work on care and breeding of fish in the aquarium. Illustrated.

92 Seventh Street, South, Minneapolis, Minn.

WHOLESALE RETAIL

Large Importation

I have over 2000 of the rarest tropical and other varieties of fish just imported. Also a shipment of 1000 of the finest singing canaries.

Place your orders in time
HERMAN RABENAU

NOTICE

I have just removed to new quarters at

1163 Myrtle Avenue, near Broadway, Brooklyn, N. Y.

IMPORTER AND BREEDER

Tropical Fishes (Live-bearing and Spawning) Plants, Snails, etc.

Xyphophorus helleri	Paradise,	Polyacanthus
Poecilia	Trichogaster	Chanchito
Girardinus	Bitterling	Danio rerio
Molliesia	and many others	
Gambusia		
Fundulus		

Domestic Fishes & Plants Aquaria & Supplies

HERMANN RABENAU

Near last station on Fulton St. El. (City Line) 1143-1153 Liberty Avenue BROOKLYN Open daily except Mondays and Tuesdays

ASK THE JUNK MAN

how many imported Air Pumps he will sell you— then ask him about the

"LITTLE WONDER"

He's never had one! It is a commercial success; attaches to your water pipe anywhere. Keeps 10,000 healthy fish in a hall bedroom. Now used by members of all aquarium societies who have thrown away their faulty, cranky imported pumps. I have the exclusive agency for these pumps for aquarium purposes. The price is \$17.50 for the pumps and regulator. Try all the others first if you have lots of money to throw away and want to lose your fish. If you want proof I will tell you whom to write to—actual users—non-interested parties.

Write for my price list of rare gold fish and plants, aquariums and accessories. I am now in touch with the big Japanese firms and can supply any kind of Goldfish, both imported and domestic.

If your aquarium troubles you, write and ask me what to do. No charge. I won't even send a price list if you don't ask for it. My prices are f. o. b. Philadelphia, on fish supplies, and the price on the "Little Wonder", weight 11 lbs. packed, is f. o. b. New York.

Remember this—you can go away for weeks at a time and come back to find your fish all well and alive and Little Wonder working—but you can't do this with an imported pump. They're all toys, that's why. Drop me a line.

S. CHICESTER LLOYD, Prop. of
THE ORIENTAL GOLDFISH CO.
EWING, NEBRASKA



The Reason Why

YOU should get ALL your Tropical Fish, Fishfood, All-Glass Aquaria, Supplies, Aquarium Pump, Tropical Aquaria, etc., from

W. L. BRIND, F. Z. S., Aquarist

554 W. 185th STREET

NEW YORK

- 1 He is the PIONEER of the Tropical Fish Fancy.
- 2 He is a DIRECT IMPORTER from Foreign Lands.
- 3 He says no store-rent and hires no help, so
- 4 He saves you unnecessary expense.
- 5 He is the ONLY EXPERT EURO-PEAN AQUARIST in the United States.
- 6 He is SOLE AGENT for the "K. D. A." Aquarium Pump.
- 7 He is SOLE AGENT for the "IDEAL" Tropical Aquarium.
- 8 He TELLS YOU HOW TO KEEP AND BREED YOUR FISH.
- 9 He personally carries your Fish to the train, thus
- 10 He insures safe arrival and healthy fish.
- 11 By ordering from him you enable him to IMPORT MORE AND MORE NEW AND DESIRABLE SPECIES.

Write for FREE CATALOG today.

Call only by appointment.



THE Terminal Pet Shop

Importers, Breeders and Dealers in

Japanese Goldfish and Tropical Fish

Fish foods, plants and aquaria

Pets of every description Birds, seeds and cages

Burnett's Japanese Fish Food

Booth No. 18 Concourse

HUDSON TERMINAL BUILDING
NEW YORK

Prices cheerfully furnished for special sized aquariums



by Dale Speirs

During the 1700s and 1800s, the average researcher did not confine himself to one field of study. Everything was new and grist for the mill. Today, those who restrict their study to aquarium journals might be surprised to learn that the 1851 issue of the Quarterly Journal of the Chemical Society of London has an article on how to keep a balanced aquarium. Robert Warington titled his article 'Notice of observations on the adjustment of the relations between the animal and vegetable kingdoms, by which the vital functions of both are permanently maintained'. This article was in Volume 3, pages 52 to 54.

Warington's study involved two small goldfish placed into a tank about 55 litres in capacity. Aquatic plants and snails were also added and the tank appeared to maintain itself for some time.

Since 1851 issues of this chemical journal are not that available, the complete article is reproduced here.

THE
Q U A R T E R L Y
J O U R N A L
OF
THE CHEMICAL SOCIETY
OF
L O N D O N.

Committee of Publication.

T. GRAHAM, F.R.S. A. W. HOFMANN, PH.D.
W. A. MILLER, M.D. F.R.S. L. PLAYFAIR, F.R.S.

EDITED BY
HENRY WATTS, B.A., F.C.S.

VOL. III.

LONDON:
HIPPOLYTE BAILLIÈRE, 219, REGENT STREET,
AND 169, FULTON STREET, NEW-YORK, U.S.
PARIS: J. B. BAILLIÈRE, RUE HAUTEFEUILLE,
MADRID: BAILLY BAILLIÈRE, CALLE DEL PRINCIPE.
1851.



with the electro-negative elements, possess also the faculty of uniting with hydrogen to form hydrurets.

To Professor von Liebig, in whose Laboratory the foregoing investigation was made, I take this opportunity of returning my warmest thanks for his advice and extreme kindness in affording me every facility for the execution of the requisite experiments.

March 4, 1850.

ROBERT PORRETT, Esq., Treasurer, in the Chair.

The following Presents were laid upon the table :

"Transactions of the Royal Society," for 1848-9, presented by the Society.

"Philosophical Magazine," for March, from the Editor.

"Pharmaceutical Journal," for March, from the Editor.

Begnault's "Traité de Chimie," presented by the Author.

"Miscellaneous Results from the Laboratory," and on the "Composition of Linseed-oil Cake," by J. T. Way (from the Quarterly Agricultural Journal), both presented by the Author.

The following Paper was read :

IX.—*Notice of Observations on the adjustment of the relations between the Animal and Vegetable Kingdoms, by which the vital functions of both are permanently maintained.*

By ROBERT WARINGTON, F.C.S.

This communication will consist of a detail of an experimental investigation, which has been carried on for nearly the last twelve months, and which appears to illustrate, in a marked degree, that beautiful and wonderful provision which we see every where displayed throughout the animal and vegetable kingdoms, whereby their continued existence and stability are so admirably sustained, and by which they are made mutually to subsolve, each for the other's nutriment, and even for its indispensable wants and vital existence. The experiment has reference to the healthy life of fish preserved in a limited and confined portion of water. It was commenced in May, 1849, and the subjects chosen were two small gold-fish. These were placed in a large glass receiver of about twelve gallons capacity, having a cover of thin muslin stretched over a stout copper wire, bent into a circle, placed over its mouth, so as to exclude, as much as possible, the sooty dust of the London atmosphere, without, at the same time, impeding the free passage of the atmospheric air. This receiver was

ANIMAL AND VEGETABLE KINGDOMS.

53

about half filled with ordinary spring water, and supplied at the bottom with sand and mud, together with loose stones of larger size of limestone tufa, from the neighbourhood of Matlock, and sandstone; these were arranged so that the fish could get below them, if they wished so to do. At the same time that the fish were placed in this miniature pond, if I may so term it, a small plant of the *Vallisneria spiralis* was introduced, its roots being inserted in the mud and sand, and covered by one of the loose stones, so as to retain the plant in its position. The *Vallisneria spiralis* is one of those delicate aquatic plants generally selected by the microscopist for the exhibition of the circulation of the sap in plants. It throws out an abundance of long, wiry, strap-like leaves, of about $\frac{1}{4}$ inch in breadth, and from 1 to 3 feet in length; these leaves, when the sun shines on them, evolve a continued stream of oxygen gas, which rises in a current of minute bubbles, particularly from any part of the leaf which may have received an injury.



The materials being thus arranged, all appeared to go on well for a short time, until circumstances occurred which indicated that another and very material agent was required to perfect the adjustment, and which, from my not having thought of at the time of commencing the experiment, had not been provided against. The circumstances I allude to arose from the internal decay of the leaves of the *Vallisneria*, which became yellow from having lost their vitality, and began to decompose; this, by accumulation, rendered the water turbid, and caused a growth of mucus, or green, slimy matter on the surface of the water, and on the sides of the receiver. If this had been allowed to increase, I conceive that the healthy life of the fish must have suffered, and probably their vital functions have been destroyed. The removal of these decaying leaves from the water, therefore, became a point of permanent importance to the success of the experiment. To effect this, I had recourse to a very useful little scavenger, whose beneficial functions have been too much overlooked in the economy of animal life,—I mean the water-snail, whose natural food is the very green, slimy growth, or mucus and decaying vegetable matter, which threatened to destroy the object which was wished to be obtained. Five or six of these creatures—the *Limnaea stagnalis*—were consequently introduced, and, by their continued and rapid locomotion and extraordinary voracity, soon removed the cause of interference, and restored the whole to a healthy state, thus perfecting the balance between the animal and vegetable inhabitants, and enabling both to perform their vital functions with health and energy.

54 RELATIONS BETWEEN THE ANIMAL AND VEGETABLE KINGDOMS.

So luxuriant was the growth of the *Vallisneria* under these circumstances, that, by the autumn, the one solitary plant that had been originally introduced, had thrown out myriads of off-shoots and suckers, thus multiplying to the extent of upwards of thirty feet, strong plants; and these threw up their long, spical, flowering stems in all directions, so that, at one time, more than forty blossoms were counted lying on the surface of the water.

The fish have been lively, bright in colour, and appear very healthy, and the snails also—judging from the enormous quantity of gelatinous masses of eggs which they have deposited on all parts of the receiver, as well as on the fragments of stone—appear to thrive wonderfully, and, besides their functions in sustaining the perfect adjustment of the series, afford a large quantity of food to the fish in the form of the young snails, which are devoured as soon as they exhibit signs of vitality and locomotion, and before their shell has become hardened.

Thus we have that admirable balance sustained between the animal and vegetable kingdoms, and that in a liquid element. The fish, in its respiration, consumes the oxygen held in solution by the water as atmospheric air; furnishes carbonic acid; feeds on the insects and young snails; and excretes material well adapted as a rich food to the plant, and well fitted for its luxuriant growth.

The plant, by its respiration, consumes the carbonic acid produced by the fish, appropriating the carbon to the construction of its tissues and fibre, and liberates the oxygen in its gaseous state to sustain the healthy functions of the animal life, at the same time that it feeds on the rejected matter, which has fulfilled its purposes in the nourishment of the fish and snail, and preserves the water constantly in a clear and healthy condition,—while the slimy snail, finding its proper nutriment in the decomposing vegetable matter and minute confervoid growth, prevents their accumulation by removing them from the field, and, by its vital powers, converts what would otherwise act as poison, into a rich and fruitful nutriment, again to constitute a pabulum for the vegetable growth, while it also acts the important part of a purveyor to its finny neighbours.



TERMS USED IN THE COLLECTING OF BOOKS

It became very clear to me that I needed education in some of the terms used in book collecting when I began to feel as though the book dealers and I were speaking two different languages when conversing. Upon asking around to some other members of CAL, I found I was not alone in this matter. For that reason, a little research at the public library turned up the following terms.

ADVANCE COPY- a copy the publisher has distributed before the actual date of publication.

ADVERTISING- pages of advertising bound in the book. At times these are helpful in dating the book.

ASSOCIATION COPY- A copy that contains some direct evidence of prior ownership by the author, another famous person or institution.

BACKSTRIP- the spine of the book.

BOARDS- the part of the binding that gives it the stiffness.

BUCKRAM- a rough cotton fabric used as a binding cloth.

DUST JACKET- the paper wrapper covering many clothbound books. These, if intact, can add value to the book itself.

EDITION- all books printed unchanged from the same set of plates.

END PAPERS- the first and last leaves of a book with the outer half glued to the inside of the boards.

EX-LIBRARY COPY- a discarded book from a public library. Usually these copies are in such a condition as to show why they were discarded, but sometimes real finds are made in these copies.

FOLIO- printing sheets folded only once to make a really large book.

FOXED- the reddish staining of paper due to the oxidizing of iron in the paper.

FRONTISPAGE- the first illustration in a book usually opposite the title page and often removed by print collectors.

HINGE- the part of a binding that connects the spine with the boards. This is the most fragile part of a well read book.

ISSUE- a printing of a book that is intentionally different from all other printings by a change in features of type.

LABELS- usually made of paper and glued to the spine to identify the book.

LIMP BINDING- a binding of a soft material other than paper.

OCTAVO- formed by a printing sheet being folded eight times to make eight leaves or sixteen pages. In modern books this makes a book of about 6x9 inches.

PRINTING- when all copies of an edition are printed at one time from the same plates as the original. (also called impression).

QUARTO- a book made from paper folded four times.

REPRINT- any new impression made without change from the original printing.

RUBBED- damage through wear and attrition.

SHAKEN- any clothbound book that is loose in its binding

UNCUT- untrimmed page edges. (the rough edges are from the paper making process)

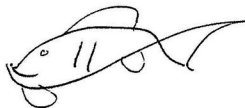
UNOPENED- pages that have not been cut to eliminate the folds used in the printing process.

WRAPPERS- the paper covers of a paperbound book.

To these commonly used definitions of the trade I add the following damage definitions used in our particular branch of book collecting. I have heard both of these used but they are not mentioned in books about book collecting, so these definitions are my loose terms.

SWELLING- when the pages of a book are swelled due to high humidity, but show no other obvious water damage.

WAFFLING- the "washboard" effect of water damage on certain types of printing paper.



-gary grant-

Specialty Collecting

Specialty collecting is the way for a small collector to build a valuable collection without spending a great deal of money. It involves picking a restricted subject and simply collecting everything available about it. Such a collection may or may not have a large dollar value, but will almost certainly be worth more than the money spent to assemble it (as opposed to the haphazard collection which is usually worth much less). Another value lies in the fact that the collector can't help but become fairly knowledgeable on the subject and may even become an acknowledged expert. (Of course, this does not hold true if you chose an area that is already highly collected such as Charles Darwin). One area I have always had a fascination for but have never collected is the Coelacanth.

The most incredible fish "find" of this century was the discovery, in 1938, of a living Coelacanth. This large primitive fish was well known from fossils but was thought to have become extinct with the dinosaurs. The South African Ichthyologist J.L.B. Smith, who identified the first chance find, spent the next fourteen years in an exciting and successful search for the home waters of the living fossil. This story is told in:

Smith, J.L.B., OLD FOURLEGS, Longmans, London, 1956. 260 pp., numerous photographs and illustrations.

The American edition, identical except for an "author's note", was published later the same year under the title:

THE SEARCH BENEATH THE SEA, Henry Holt, New York, 1956. 260 pp.

Hundreds of popular articles have been published on the Coelacanth. The following are typical and one of the authors will be quite familiar to aquarium hobbyists:

Trewavas, E., THE COELACANTH YIELDS ITS SECRETS. Discovery Magazine, May 1958: 196-205.

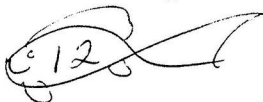
Millot, J., THE COELACANTH. Scientific American, Vol. 193, no.6 (Dec 1955):34-39.

Additionally, hundreds of scientific articles have been published. The majority of them are in French, but a number are in English. The original paper announcing the discovery of the Coelacanth is:

Smith, J.L.B., A LIVING COELACANTHID FISH FROM SOUTH AFRICA. Transactions of the Royal Society of South Africa, Vol.28 (1939):1-106, plates 1-44.

The most comprehensive recent review of the Coelacanth is a series of fourteen articles by various experts, published as:

McCosker and Lagios, eds., THE BIOLOGY AND PHYSIOLOGY OF THE LIVING COELACANTH. Occasional papers of the California Academy of Sciences, no. 134 (1979): 175 pages, frontis, 91 figures.



MARGINAL NOTES (cont.)

All these publications (especially McCosker and Lagios) have bibliographies which will introduce you to the extensive literature of this animal which has truly captured both the public and scientific imagination. But would all this literature yield a complete collection of Coelacanth material? Not at all. The fish has engendered its own protective society (The Society for the Protection of Old Fish), a poem by Ogden Nash, an opera by Charles Rand, postage stamps, T-shirts, plastic models, newspaper and magazine cartoons, etc., etc. Truly a lifetime of collecting.

TFH Magazine

In the CAL bulletin no. 5 (May 1984), Steve Stewart listed a series of aquarium magazine condition grading criteria. While I don't agree with his patronizing opinions regarding what a "real collector" would allow in his collection, I applaud his spelling out of specific grading criteria. This gives a series of marks with which a collector can agree or differ, as he sees best. One of the grades Stewart lists is "poor; lousy, missing pages. This includes, in our estimation, the inserts in the Tropical Fish Hobbyist magazine...No collector may claim his set is complete if his issues are missing (these inserts)."

With this in mind, collectors should be aware that TFH magazine, starting with the September 1985 issue, has published two editions, one without the last 16 pages (supposedly consisting only of mailorder ads) bound in. The complete version went to home subscribers, the emasculated edition was for "bulk sales" (that is, those magazines sold in aquarium shops). If you believe the TFH figures, approximately 75% of the magazines were bound "complete" with 116 pages.



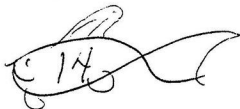
The following issues are covered in the 1970 - 1982 index:

January 1970	Volume 70	Number 1
May 1970	Volume 11(70)	Number 2
September 1970	Volume 11(70)	Number 3
January 1971	Volume 12(71)	Number 1
February 1972	Volume 13(72)	Number 1
July 1972	Volume 13(72)	Number 2
April 1973	Volume 14(73)	Number 1
June 1974	Volume 15(74)	Number 1
March 1976	Volume 16(76)	Number 1
December 1976	Volume 16(76)	Number 2
April 1977	Volume 17(77)	Number 2 (correct to #1)
October 1977	Volume 17(77)	Number 2
Spring 1978	Volume 18(78)	Number 1
Fall 1978	Volume 18(78)	Number 2
Spring 1979	Volume 19(79)	Number 1
Winter 1979	Volume 19(79)	Number 2
January 1982	Volume 20(82)	Number 1
July 1982	Volume 20(82)	Number 2

This index is listed according to subject, author and title. Volume and number, but not page, are given for each item listed in the index. The first number is the volume, the second is the number of the volume. For example, "The Age of Arapaima" 13/1 means this article is found in Volume 13, Number 1.

In keeping with the highly irregular nature of the journal, the numbering system for this publication is complicated by the following:

- 1) Up to January 1970, the Volume number was the year in which the journal appeared. For example the January 1970 issue is listed as Volume 70, Number 1.
- 2) In the next issue, which was May 1970, the numbering system was changed to reflect the number of years in which the Drum and Croaker had been published and therefore that issue became Volume 11, Number 2, reflecting the fact that Drum and Croaker had actually been published 11 times at that point of its 26 year history.



- 3) Just to keep things interesting, the April 1977 issue was misnumbered as Volume 17, Number 2 on the cover, but was correctly noted on the title page as Volume 17, Number 1.
- 4) An index covering material for the 1958 to 1966 period was produced by James Atz, and another 2 page index included in Volume 69, Number 3, covers material printed between 1966 and 1969. These have been reprinted for your convenience and can be found following the 1970 -1982 index.
- 5) An "Aquarium Design Criteria" (106 pages) was edited by William Hagen in 1970 for Drum and Croaker but was not included in this index.
- 6) There were no issues published in 1980 or 1981.

A

A.A.Z.P.A. 12/1, 13/1, 13/2, 18/1, 14/1
 "Ability of Two Commercial Filtrants to Remove Various Inorganic metabolites and Chemotherapeutic Agents from Fresh Water and Seawater" 20/2
 Abstract 11/2
 "Acrylic Sheet in Aquarium Glazing applications" 16/2
 Adhesives - sealants 11/2
 "Age of Arapaima" 13/1
 "Air lifts examined in Depth..." 19/1
 "Alewives at Shedd Aquarium" 15/1
 "Algae removal by Hermit Crabs" 11/2
 "Ammonium Chloride and biological filtration" 16/1
 Anderson, Bryce 11/3
 Andrews, Jackson 18/1
 "Another monster turns out to be a Myth" 17/2
 "Antidotal Study on the Skin Extract of the Puffer Fish" 13/2
 "Application of Fluidics in the Aquarium" 11/2
 Aquarists - "Aquarists and the AAZPA" 14/1
 "Estimate of Aquarists Positions in the U.S.A." 14/1
 "Aquarium Design Criteria" 11/3

C/S


THOMAS N. TILLES
14 Sand Hill Road
Bethel, CT. 06801

11/13/85

Dear Dave:

Thought I would send this little idea for all the members of CAL!!

Using the old TFH binders (5½x8) that TFH still sells(?), the following magazines will fit very nicely: ACA's BB, AKA's JAKA, ALA's Livebearers, The Marine Aquarist, Today's Aquarist, Aquarium Hobbyist. Using the clear spine on these TFH binders, one can insert the enclosed labels that will show Years and Numbers without looking through the contents to see what the binder holds!

The enclosed labels can be photo-copied and cut to fit each binder. What do you think!?

Best regards,



Numbers.....
Years.....

*Journal of the
American Killifish
Association*

Numbers.....
Years.....

**BUNTBARSCHE
BULLETIN**



Years.....
Numbers.....

MARINE

The **AQUARIST**®

Years.....
Numbers.....

QUARTERLY

TODAY'S AQUARIST

Years.....
Numbers.....

LIVEBEARERS

BULLETIN OF THE
AMERICAN LIVEBEARER ASSOCIATION

Years.....
Numbers.....

AQUARIUM HOBBYIST

QUARTERLY



The "Dupla Exclusive" Catalog

by Dr. Keith E. Taylor

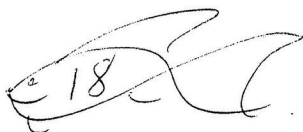
The well established German company, Dupla Aquaristik, is just appearing on the American scene with "Dupla Exclusive." This catalog is a very unique and impressive one that attempts to introduce you to the world of the "complete aquarium." Many are familiar with this company's quarterly journal, "Today's Aquarium." However Dupla is more than a publisher of aquarium literature; it's a researcher and manufacturer of a complete line of aquarium products.

Dupla regards the aquarium as a complex system which can be broken down into six component parts: heating, lighting, CO₂, fertilizer, water treatment and analysis (diagnosis and therapy). Each of these subjects are taken separately to be explored both on a theoretical as well as a practical aquarium management basis. An example of this is their treatment of heating an aquarium. In nature there is little difference in temperature between the water and bottom substrate, but with most home aquariums using glass heaters, the gravel remains at room temperature. Dupla solves this problem with a flexible cable heater that fits in the bottom of the aquarium to gently warm the plant roots. Similar examples are found throughout the catalog in each section; many are quite thought provoking.

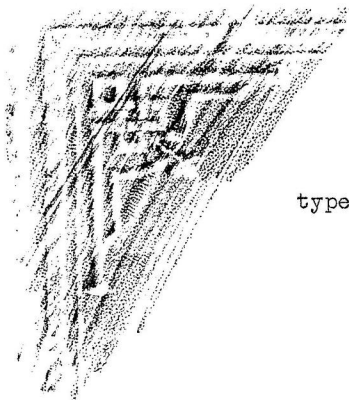
The central theme throughout "Dupla Exclusive" is to have healthy plant growth. This may seem strange at first to those who's interest lie with fish, but it is Dupla's philosophy that only through optimum plant growth can one have healthy, lively fish. The idea of "the aquarium at its best" is nothing new to the men behind Dupla. Horst Kipper is the originator of Dupla and author of "Das Perfect Aquarium", soon to be released to the U.S. The other man behind the scenes is Kasper Horst who publishes "Today's Aquarium" and developed Dupla's CO₂ infusion process. Both are avid aquarium hobbyists and travel world-wide studying different tropical fish habitats. Much of what they have learned is applied here in the catalog.

The format of "Dupla Exclusive" is similar to their quarterly journal. It measures approximately 6"x 8", printed on high gloss paper with color photos on every page. The eighty-six pages are in a spiral binder with a plastic spine attached to allow mounting into a two ring notebook. Many of the pages are fold-outs that double the width of the catalog. "Dupla Exclusive" is more than just a line-up of aquarium products, as it is an introduction to a new philosophy in aquarium care and management. I would highly recommend this catalog as it will make an excellent addition to anyone's collection. Copies may be obtained through Dupla at \$3.75 each, postage included. Write to:

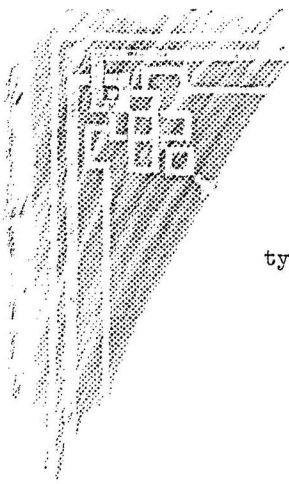
Dupla USA
31 Eversley Ave.
Norwalk, Ct. 06815



THE FAMILY AQUARIUM by BUTLER



type "B"

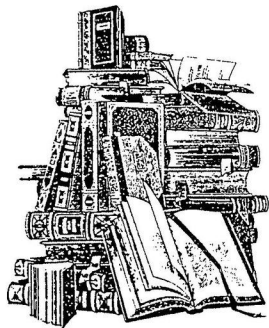


type "A"

Two editions of Butler's "The Family Aquarium" ??? This 1858 pioneer work on the keeping of tropical fish in glass aquariums is one of the two first books on the subject printed in the United States. "Life Beneath the Waters" by Arthur Edwards is the other. Which is the earliest?? I have no idea. Both are shown as being printed in 1858 on the copyright page. The Butler book is a little easier to find than the Edwards book but either or both are to be prized if they can be found. I have handled about 7 or 8 copies of Butler. Until an hour ago I was convinced they were all printed in one single edition. The copy I had just received seemed to be missing plates and so I went to my personal library to compare my copy with the one bought for resale. I doubt I would have picked up the difference otherwise. There is only one plate and that a beauty that faces the Title page. The new copy did not have the plate. I have used my magnifying glass and see no evidence that it was there although I suspect it must have been. I need everyone to help who has a copy of the Butler book so we can determine if it should have a plate (type "B"). Type "A" is larger (5" x 7 5/8th") and the cover is a different color (deep brown). Type "B" is smaller (4 3/4" x 7 1/8th") and covered in a deep green. Type "A" has 4 pages of advertising bound in at the end and Type "B" has a similar amount but totally different. The incised decoration on the covers is different. I don't know if the rubbings will reproduce, but it is the best I can do. Does anyone else have a copy of type "B" ?? I could easily have sold one in recent years without ever been aware of the fact that there are two different printings or bindings?? Any additional information that surfaces from this discovery will be printed in CAL.

RBS

190



Jare Sausaman reports that collectors of AQUARISTS NOTEBOOK must be aware that there is no issue printed that is marked Volume 2 #10. There are two different issues marked Vol.2 # 9. The mismarked one is the one devoted to "Two Easy Tetras to Breed". That is Vol.2 #10(marked #9).

RBS

Ross Socolor
P.O. Box 1987
Bradenton, FL 33506

Aquarist and Pondkeeper-

Inventory of volumes all unbound and mostly very good-NO major defects.
on hand volumes # 13 thru 41- those volumes that are not complete
are enumerated here.

- vol. 13 misses #10,11.
- 14 misses #4
- 15 is complete, but April(#1) is a poor copy
- 20 is missing -(some loose issues on hand)
- 23 is missing (same as above)
- 24 is missing 1,3,12
- 25 is missing # 1
- 26 thru 41 are complete..

ALSO: ask for current inventory sheets on: Waterlife, PetFish Monthly,
Aq. Journal, Trader, Marine Aq. Aquarium Mag, FAMA, early TFH, and much more.

Tom Cavallaro, Apt. F-32, 812 Goshen Rd., West Chester, PA, 19380

- WANTED - Today's Aquarist Magazine (any)
- T.F.H. Magazine: Jan.'70 (Vol. XVIII#5)-Sept.'70 (Vol. XIX#1)
(good condition only)
- Literature pertaining to Lake Malawi Cichlids (send have list)
-

20

FOR SALE: The following numbered items from my 1986-1 literature catalog are now reduced by 25% to all interested parties: Nos. 4,7,8,11,12,13,16,17,18, 19,20,21,24,25,27,28,33,34,36,37,39,40,42,43,45,47,50,55,57,58,59,60,64, 65,67,68,69,70,71,80,85,86,87,88,90,91,93,96,100,102,103,104,105,106,107, 109,110,114,118.

WANTED FOR FUTURE ARTICLE: any information on ACA special publications including convention booklets and handouts made by the speakers at the conventions.

WANTED: any original papers by Regan,Steindachner,Boulenger,Eigenmann or Fowler on freshwater fishes. These authors are just a few of the needed ones,so if you have any papers that you think might interest me,please write or call.

Gary Grant
324 Mill St.
Algonac,Michigan 48001
(313) 794-4828

DAN THOMPSON, 3825 CUMBERLAND PKWY, VA BEACH, VA 23452, (804) 498-3930

I'm back from overseas and anxious to start trading again. If I have any unfinished business with anyone please let me know as my records are a mess after last years move. Send me your want lists as I have many good duplicates available for sale/trade.

WANTS: AQUARIUM May, June 1932; AQUATIC LIFE, SERIES II Sept 1956, Aug 1957, and Mar/Apr 1961; MARINE HOBBYIST NEWS Nov 1973, Jan Feb 1974, Feb, Apr 1974, Jul, Aug 1977; ICHTHYOPHILE V.1#'s 2, 4, 5, 7, 8, 11 V.2#'s 2, 6, V.3#'s 2, 3, 4; AQUARIST'S NOTEBOOK V.1#'s 8-12, V.2# 2, V.4# 1, V.5# 12, V.6# 11, V.7#'s 6, 8, 12, V.8#'s 2, 3, 5-9, 11, 12, V.9#'s 1, 2, 3, 5-10; MODERN AQUARIUM Dec 69; ADVANCED AQUARIST'S MAGAZINE #'s 2, 56, 57; AKA BUSINESS NEWSLETTER Aug 1978, Dec 1980, Jan thru Apr, Nov, Dec 1981; BUNTBARCHE BULLETIN #'s 1, 6, 7, 9, 10, 13, 14, 18, 63.

Wants " THE AQUARIUM" (INNES)

VOL. I, 1932. #1,2,3. MAY, JUNE, JULY

"AQUARIUM JOURNAL"

VOL. I8, 1947- APRIL, SEPT.

FOR SALE " Hard cover book " AQUARIUM PLANTS",

Their identification, cultivation and ecology

by DR. Karel Rataj and Thomas j. Horeman

Have various issues of T.F.H., MARINE AQUARIST,

AQUARIUM JOURNAL ,THE AQUARIUM (INNES) for sale

or trade for any of my above listed wants.

JOHN LIND
2064 Bragg ST.
BKLYN. N. Y. 11229



WANTED: Any materials by or about William T. Innes, including magazine articles about WTI, and other items including the following:

GOLDFISH VARIETIES AND TROPICAL AQUARIUM FISHES; any edition dated 1917, also any copy with the original dust jacket.

EXOTIC AQUARIUM FISHES; most editions if in fine condition, esp. with dust jackets.

THE AQUARIUM magazine; most issues from 1939 through 1946 and 1952 through 1959, also some others; volumes bound by Innes; original magazine file boxes.

ALSO WANTED: Many pre-1945 aquarium books. What have you?

AVAILABLE FOR TRADE: Approximately 75 aquarium/fish related books;

Various magazines including AQUARIUM ILLUSTRATED (Klee), TROPICAL FISH WORLD, FTFI TRADER, AQUARIUM JOURNAL, ADI, AQUARIUM NEWS, TFH, THE AQUARIUM, and others. What do you need? Send for trading lists.

JAMES FORSHEY, P.O. BOX 26484, SACRAMENTO, CA 95826-0484
***** NEW MAGAZINES *****

FOR THE BOOK COLLECTOR	PRICE EACH
AB BOOKMAN'S WEEKLY 1986 SPECIAL ISSUES	
AB-1 SUBJECT NATURAL HISTORY	\$5.00
PART I, PUB. DATE JUNE 2, 1986 (list \$6.00)	
AB-2 SUBJECT NATURAL HISTORY	\$5.00
PART II, PUB. DATE AUG 4, 1986 (list \$6.00)	
<hr/>	
A) POSTAGE AND INSURANCE RATES UNDER \$10.00 ADD \$1.00, \$10.00 TO \$30.00 ADD \$1.50, OVER \$30.00 ADD \$2.00	
B) ALL ORDER ARE SENT 4TH CLASS MAIL BOOK RATE (ON FOREIGN ORDERS WRITE FOR RATES BEFORE ORDERING)	

R. Clarke, Box 23 , Hilton Beach, Ont. Canada POR IGO
T.F.H. For Sale or Trade For Wants.

1969- jan, feb, april, june, july, oct, dec

1970- jan, mar, may, june, july, sept, oct, nov, dec

1971- jan, feb, mar, april, aug, sept, oct

1973- jan, mar, apr, may, june, sept, oct, nov, dec

Wants

1980- feb, 1966 all 1975 all 1967 march

1979- jan, march, april, may, aug, oct

1978- march, april, may, june, july, aug, sept

1977- april, june, aug, oct, dec

1976- jan, april, may, june, nov

1968- jan, feb, apr, june, july, sept, oct, nov, dec

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WANT LIST

AQUARIEN MAGAZIN V13 #10, 11, 12; V14 all; V15 #3, 8, 10; V17 #1, 3, 7, 9, 10, 11, 12; V18 all

DER AQUARIEN FREUND V2 #6 and subsequent

AQUARIEN TERRARIEN V1 thru V4 all; V6 all; V7 all; V8 all; V9 all; V11 #1, 3, 5, 7, 9, 11; V12 #7, 8, 9, 10, 11, 12; ~~V13~~; V17 all; V18 all; V19 all; V20 #8, 11; V21 all; V22 all; V23 #4, 9, 10, 12; V24 #1, 2, 3, 10, 11, 12; V25 all; V27 all; V32 #9, 10, 11, 12

DATZ V1 all; V2 all; V3 all; V4 all; V5 all; V6 #1, 2, 4, 7, 8, 11; V9 #10; V11 #3, 5, 7, 8; V12 #7, 9; V13 #2, 3, 4, 7, 11, 12; V14 #1, 2, 6, 7, 8, 9; V15 #2, 4, 5, 6, 7, 9, 12; V16 #1; V17 #12; V18 #11, 12; V20 #12

AQUARIUM (GERMAN) All issues

AQUA TERRA All issues

DAS AQUARIUM #1, 2, 3, 8, 13, 14, 15, 16, 17, 18, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 58, 60, 62, 63, 64, 65, 66, 72, 76, 88, 89, 90, 92, 93, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 108, 109, 110, 111, 112, 114, 115, 116, 119, 120, 121, 123, 124, 125, 126, 128, 131, 132, 133, 134, 144, 145, 146, 147, 148, 177, 185, 186

ROBERT HARRIS, P.O. BOX 257, STATION "D", SCARBOROUGH, ONTARIO. CANADA. M1R 5B7.

WANT LIST:

Phone (416) 447-2237.

Magazines and books about guppies. All titles wanted including those listed below; I.F.G.A. Bulletin, Guppy Roundtable, The Guppy News, Guppy Nut News, The Fancy Guppy Correspondence Club, Delta Tales, Guppy Tales, Ragged Tales, Cobra, GAM Gazette, Guppy News, Guppy Gossip, Philadelphia Guppy Club, Portrait of a Guppy, The Guppy Pond, Fancy Guppy Association Journal, Fancy Guppy Society of Edmonton, Journal of the Modern Guppy Breeder and others not mentioned. Also wanted, All About Guppies, 1952. Modern Aquarium, Nov., 1968, Dec., 1968 and February, 1969.

Tropical Fish Hobbyist, Nov./Dec., 1954. Mar./Apr., 1955, and Sept./Oct., 1956.

The Aquarium, by Innes, all Bound Volumes by the publisher.

F.T.F.I. Trader, the last twelve issues, complete.

The Marine Aquarist, all 6 issues of Volume One, Bi-monthly, 1970.

Aquariana, Vol. One, No. 3,5, and 7. Vol. Two, No. 1, and 2.

Today's Aquarist, Vol. One, No. 2, and 4. Vol. Two, No. 3.

Advanced Aquarist of Atlanta, Numbers 2, 8 and 9.

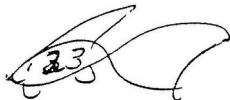
Marine Life, all seven issues.

Aquarium Hobby Newspapers wanted:

Marine Aquarium Review, Vol. One, No. One, July, 1977.

Aquarist Gazette, Volume One, No. 2, and 4.

Wanted,
All pre-1930
aquarium magazines.



Membership dues are \$10 per year which entitles you to:

Four issues of CAL and twenty lines of free ad space per issue to let CAL members know what you want to buy, sell, trade, or learn. Extra ad space is \$1 per line and payment must accompany your ad, allow three weeks lead time for Dave Hopp to publish your ad in CAL which is published February, May, August, and November of each year.

\$5 REFUND if you contribute an article to CAL. Any article of interest to CAL members earns a \$5 REFUND or Extend your subscription two issues.

Back issues of CAL are \$2.50 per issue.

CAL members can order a second subscription for themselves at \$6 per year.

Overseas dues are \$13 per year, which includes airmail.

Material published by CAL may be reprinted, unless specifically denied in the article, providing that two copies of the reprinted material are sent to CAL. Credit to CAL must appear immediately after the end of the reprinted material and must take the following form: Reprinted from CAL. Any person interested in the Collectors of Aquarium Literature should apply to Dave Hopp, Editor, 3604 Agate Drive, Modesto, Ca. 95356.

Membership dues are \$10.00 per year, overseas dues are \$13.00 per year.
Mail all correspondence to: Dave Hopp, 3604 Agate Drive, Modesto, CA 95356.

NAME _____ PHONE-REQUIRED _____
ADDRESS _____ CITY _____
STATE _____ ZIP CODE _____ COUNTRY _____

DAVID AND JEAN HOPP
3604 AGATE DRIVE
MODESTO, CA 95356